

## SEQUENCE LISTING

<110> Alleman, Arthur  
Barbet, Anthony

<120> Polynucleotides and Polypeptides of Anaplasma Phagocytophilum And Methods of Using the Same

<130> UF-387

<160> 4

<170> PatentIn version 3.2

<210> 1

<211> 742

<212> DNA

<213> Anaplasma phagocytophilum

<220>

<221> misc\_feature

<222> (29)..(250)

<223> Coding sequence of processed MSP5 polypeptide

<220>

<221> misc\_feature

<222> (29)..(610)

<223> 5' and 3' ends of cloned MSP5 insert

<400> 1

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agcgccgata ttggcttctt ttactgatct gataaatcaa gaaggtcagg ttgttagtag 180

cactgatttt gctggaaagc acatgttgct tatgttcggc ttttcttcat gcaagcacat 240

atgcctgcg gaacttggta tggtatcgca acttttaaac aagttgggtg agactgctga 300

taaacttcaa gctgtttca taactattga tcccaaaaat gacactgtt aaaggtaaa 360

ttagtatcac aaagccttg atagtcgaat tcagatgctg actggggatg aggaagttat 420

tcgcaatgta gtgaataatt ataaggtata cgtaggtgag tctgatagtg aaggagatat 480

taatcactca tcgttttgt acttgggtga tgccgacgga agatatgtg ggcattttgc 540

tcctgatttt gatgaatacg aaagtcaagt aggtagactt tttgatttcg ttaataagta 600

ccctacttct aaggcgaaat tcgaagctta cgtagaacaa aaactcatct cagaagagga 660

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ggctgttttg gcggatgaga ga 742



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<212> PRT  
<213> Anaplasma phagocytophilum  
  
<400> 2

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Asp Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala  
20 25 30

Pro Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val  
35 40 45

Val Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly  
50 55 60

Phe Ser Ser Cys Lys His Ile Cys Pro Ala  
65 70

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<211> 89  
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<213> Anaplasma phagocytophilum  
  
<400> 3

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1 5 10 15

Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser Asp  
20 25 30

Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala Pro  
35 40 45

Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val Val  
50 55 60

Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly Phe  
65 70 75 80

Ser Ser Cys Lys His Ile Cys Pro Ala  
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<210> 4  
<211> 15  
<212> PRT  
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<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> MSP5 signal peptide

<400> 4

Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Leu Val Ala  
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